

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2004 (06.05.2004)

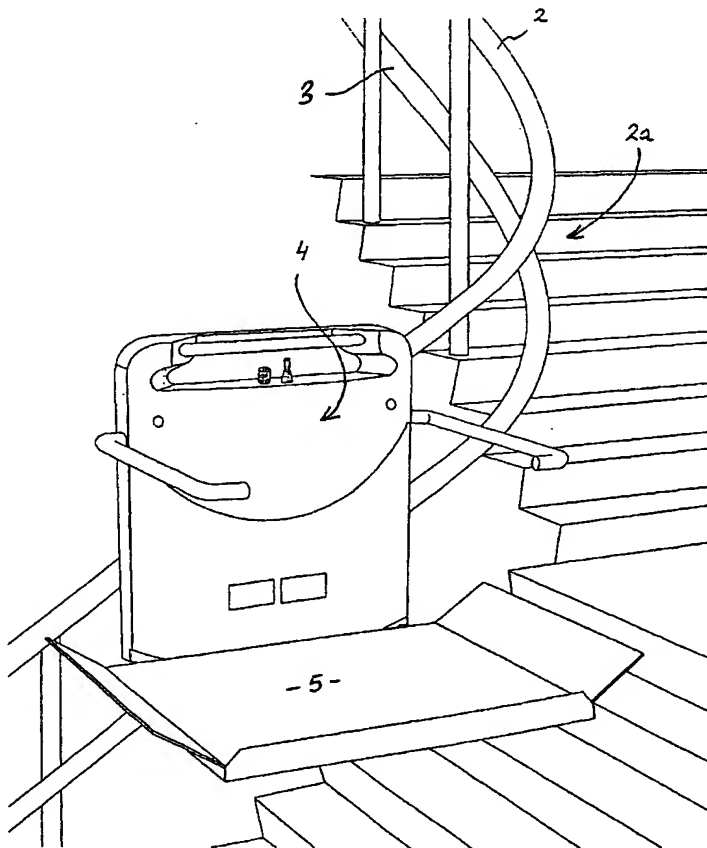
PCT

(10) International Publication Number  
**WO 2004/037703 A1**

- (51) International Patent Classification<sup>7</sup>: **B66B 9/08** (74) Agent: PATENTGRUPPEN APS; Aosgården, Aaboulvarden 31, DK-8000 Aarhus C (DK).
- (21) International Application Number: PCT/DK2003/000704 (81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 16 October 2003 (16.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
02079401.2 22 October 2002 (22.10.2002) EP
- (71) Applicant (*for all designated States except US*): BC LIFT A/S [DK/DK]; H.C. Ørstedvej 13, DK-9900 Frederikshavn (DK).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): CARLSEN, Børge [DK/DK]; Mylius Erichsensvej 12, DK-9900 Frederikshavn (DK).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: GUIDE RAIL FOR A STAIRLIFT



(57) Abstract: The invention concerns a staircase lift for transporting a disabled person between floors, including at least one guide rail extending substantially parallel to a stairway, a moveable carrier frame suspended from the guide rail means including carrier support means, and drive means of a rack and pinion type drive for displacement of the carrier frame along the guide rail, in which the vertically disposed pinion engaging the rack is provided on the lower side of the guide rail, wherein the at least one guide rail includes internal support surfaces which may be engaged by the carrier support means. Hereby, a satisfactory solution is provided making a side rail guided staircase lift suitable for running along a straight as well as a curved track in a stable and smooth manner while also offering a comfortable and smooth ride in a dignifying way for the disabled persons using the lift.



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*